

incoming  
m0470089  
cc: Leslie



---

Corporate Office  
4526 Ridgeview Dr., Eagan, MN 55123 • Phone (651)452-7125 • Fax (651)905-1998

August 8, 2007

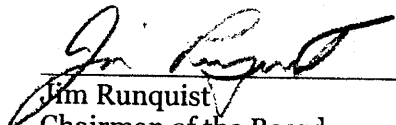
State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining

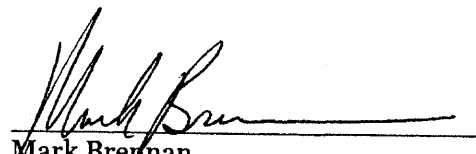
To whom it may concern:

This letter acknowledges the Temple Mountain Energy, Inc. and Ames Construction, Inc. are working together to complete Temple Mountain Energy's Large Mine Permit with the Division of Oil, Gas and Mining (DOGM).

As part of this working agreement, Temple Mountain Energy gives its authority and permission for Ames Construction to work fully with DOGM in completion of any and all of the mining permit's questions and requirements.

Signed

  
Jim Runquist  
Chairman of the Board  
Temple Mountain Energy, Inc.

  
Mark Brennan  
Senior Vice President  
Ames Construction, Inc.

RECEIVED

JUL 07 2008

Div. of Oil, Gas & Mining

0018 0009

140470089

This is the html version of the file <http://www.airquality.utah.gov/Permits/DOCS/IN0119410009-08.pdf>.  
Google automatically generates html versions of documents as we crawl the web.  
To link to or bookmark this page, use the following url: <http://www.google.com/custom?q=cache:6R-j0otfYQEJ:www.airquality.utah.gov/Permits/DOCS/IN0119410009-08.pdf+air+quality+permits+N011941-0009&hl=en&ct=clnk&cd=1&gl=us&client=google-coop-np>

*Google is neither affiliated with the authors of this page nor responsible for its content.*

These search terms have been highlighted: **air quality n011941 0009**

Page 1

JON M. HUNTSMAN, JR.  
*Governor*

GARY HERBERT  
*Lieutenant Governor*

State of Utah

Department of  
Environmental Quality

Richard W. Sprott  
*Executive Director*

DIVISION OF AIR QUALITY  
Cheryl Heying  
*Director*

DAQI

January 22, 2008

Leon Higgins  
Ames Construction, Inc.  
3737 West 2100 South  
West Valley City, Utah 84120

Dear Mr. Higgins:

Re: Intent to Approve: Replacement of a Crusher and a Screen  
Various Counties in Utah – CDS B; SM; NSPS; Title V Minor  
Project Code: **N011941-0009**

The attached document is the Intent to Approve (ITA) for the above-referenced project. ITAs are submitted to public review. Any comments received shall be considered before an Approval Order is issued.

Future correspondence on this Intent to Approve should include the engineer's name as well as the D number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Mr. Maung Maung. He may be reached at (801) 536-4153.

Sincerely,

John T. Blanchard, Manager  
Minor New Source Review Section

JTB:MM:sa

cc: Salt Lake Valley Health Department

150 North 1950 West • PO Box 144820 • Salt Lake City, UT 84114-4820 • phone (801) 536-4000 • fax (801) 536-4099

T.D.D. (801) 536-4414 • [www.deq.utah.gov](http://www.deq.utah.gov)

**Page 2**

**STATE OF UTAH**

**Department of Environmental Quality**

**Division of Air Quality**

## **INTENT TO APPROVE: Replacement of a Crusher and a S**

**Prepared By: Maung Maung, Engineer  
(801) 536-4153  
Email: mmaung@utah.gov**

### **INTENT TO APPROVE NUMBER**

**DAQE-IN0119410009-08**

**Date: January 22, 2008**

### **Ames Construction, Inc.**

**Source Contact  
Leon Higgins  
(801) 977-8012**

**M. Cheryl Heying  
Executive Secretary  
Utah Air Quality Board**

***Summary of Air Quality Approval Order Process for Portable Sources  
Non-metallic Mineral Processing Industry***

***This Approval Order (AO) is issued to Ames Construction, Inc. for the purpose of operating portable equipment that belongs to the non-metallic mineral processing industry, including aggregate processing and concrete plants. Sets of equipment chosen from the equipment approved in the tables at the end of this AO shall be temporarily operated for a period of not more than 180 operating days in any calendar year at any site. A relocation shall not exceed 365 consecutive days at any location in the State of Utah. Prior to commencement of operation at a site, the source shall submit a Notice of Temporary Relocation to the Executive Secretary. If the plant operates at a site in compliance with the AO, the Notice of Temporary Relocation, and the Temporary Relocation Approval Letter, dispersion modeling results determined that there will be no adverse impacts on air quality at the nearest residence or commercial establishment. Compliance with the opacity limits and various operating practices listed in the conditions of the AO shall be considered as application of Best Available Control Technology. The emission control measures listed in the conditions of this AO shall apply to all of the sites at which the equipment approved by this AO operates. The source may be required to adopt additional measures, controlling emissions to address site-specific concerns. The tables at the end of this AO shall indicate whether the equipment is subject to the New Source Performance Standards, (NSPS, 40 CFR Part 61 Subpart OOO). The Temporary Relocation Approval Letter, which the source is required to possess prior to operation, shall list the allowable emissions and/or production limits for the relocation. This AO limits the source to emissions, which are below the major source threshold, making it a "Synthetic Minor" source. Other applicability factors may still apply. The terms and conditions of this AO are enforceable by both the State of Utah and the Federal Government.***

The Notice of Intent (NOI) for the above-referenced project has been evaluated and has been found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307). Air pollution-producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Executive Secretary of the Utah Air Quality Board.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notice of intent to approve will be published in the Salt Lake Tribune and Deseret News on January 26, 2008. During the public comment period the proposal and the evaluation of its impact on air quality will be available for both you and the public to review and comment. If anyone so requests a public hearing, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated.

Please review the proposed AO conditions during this period and make any comments you may have. The proposed conditions of the AO may be changed as a result of the comments received. Unless changed, the AO will be based upon the following conditions:

**General Conditions:**

**GENERAL CONDITIONS:**

1. This AO applies to the following company:

Corporate Office Location  
Ames Construction, Inc.  
3737 West 2100 South  
West Valley City, Utah 84120

**Page 4**

DAQE-IN0119410009-08

Page 3

Phone Number (801) 977-8012

Fax Number (801) 977-8088

The equipment listed in this AO shall be operated at various locations throughout the State of Utah.

2. All definitions, terms, abbreviations, and references used in this AO conform to those in the UAC R307 and Title 40 of the Code of Federal Regulations (40 CFR). Unless otherwise, references cited in these AO conditions refer to those rules.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401.
4. Modifications to the equipment or processes approved by this AO that could affect emissions covered by this AO must be reviewed and approved in accordance with R307-401.
5. All records referenced in this AO or in applicable NSPS standards, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or the Executive Secretary's representative upon request, and the records shall include the year period prior to the date of the request. Records shall be kept for the following minimum periods:
  - A. Emission inventories Five years from the due date of each emission statement or until the next inventory is due, whichever

B. All other records Two years

6. Ames Construction, Inc., owner/operator, shall install and operate the replacement crusher and shall conduct its operations of the aggregate and concrete plants in accordance with the terms and conditions of this AO, which was written pursuant to Ames's NOI submitted to the Division of **Air Quality** (DAQ) on August 14, 2007 and the terms and conditions of the Temporary Relocation Approval Letter issued by the Executive Secretary for each relocation. This Approval Letter will be based on the DAQ analysis of the information submitted to the Executive Secretary in the Notice of Temporary Relocation Form.
7. In the case of any discrepancy between the Conditions of the AO and the Temporary Relocation Approval Letter, the source shall be required to comply with the site-specific requirements in the Temporary Relocation Approval Letter.
8. The source shall be allowed to relocate any of the equipment listed in the Tables at the end of this AO, to any location approved by the Temporary Relocation Approval Letter.
9. Equipment listed in the Tables at the end of this AO can be replaced by other equipment of equal or lesser production capacity having the same function as the existing equipment with written notification to the Executive Secretary, and adherence to the following "Replacement in Kind" provision:

Page 5

DAQE-IN0119410009-08

Page 4

- A. Potential to emit of the replacement equipment is the same or lower;
- B. Horse power rating or rated capacity of replacement equipment remains the same or lower;
- C. Number of emission points or emitting units is the same or lower;
- D. No additional types of **air** contaminants are emitted as a result of the replacement.

Additional information is required if replacement equipment is subject to an NSPS standard.

10. This AO shall replace the AO (DAQE-AN1941007-06) dated November 14, 2006.

### Relocation

11. Prior to operating equipment at any site, the owner/operator shall obtain a Temporary Relocation Approval Letter in accordance with R307-401-7, UAC. Temporary relocation shall not exceed 180 operating days in any calendar year not to exceed 365 consecutive days, starting from the initial relocation date, at any site. The DAQ needs at least ten working days for processing and issuing a Temporary Relocation Approval Letter, however Notices of Temporary Relocation may be submitted as soon as the details of equipment to be used and when the equipment will be at each specific site are available. Notices of Temporary Relocation shall include the following information (Form 15 available from the DAQ):
- A. The location of the proposed site (Please include directions on how to go to the site).
  - B. The expected startup and completion dates for operating at the proposed site.
  - C. A site diagram showing the general equipment location on site (to scale), distance to the nearest houses, barns or commercial operations (to scale if the boundary is located within one mile of these buildings).
  - D. A list of the equipment to be operated at the proposed site.
  - E. Additional emission control measures for various emission points that the owner proposes to adopt at each site, which will require application of emission controls beyond the control measures required by this AO.
  - F. Include a reference to this AO.
12. Relocation to Sites Listed in the Utah PM<sub>10</sub> State Implementation Plan: Temporary sources that plan to relocate to sites listed in the Utah PM<sub>10</sub> State Implementation Plan (PM<sub>10</sub> SIP) shall be required to meet standards and adopt control strategies listed in the PM<sub>10</sub> SIP for the site, if the PM<sub>10</sub> SIP requirements for the site are more stringent than the requirements specified in the conditions of this AO. For sources that submit a Notice of Temporary Relocation, the DAQ will review the information provided and issue a Temporary Relocation Approval Letter if the information meets the requirements of this AO.



Temporary Relocation to relocate to a site that is listed in the PM<sub>10</sub> SIP under which the source would be required to operate shall be specified in the Temp Relocation Approval Letter.

13. The Temporary Relocation Approval Letter, which the source is required to possess to operation at a site, shall list the allowable emissions for the relocation based on the aggregate production capacity, the projected hours of operation during the period of relocation, and the degree of enforceable emissions control that the source proposes to adopt during the period of relocation. The owner/operator shall maintain records of equipment listed in the Tables at the end of the AO. The records shall contain actual hours of operation of the equipment at each site and the actual emissions that resulted from operation at each site. These emissions shall be summarized for each piece of equipment at the completion of operation at each site, or every 6 months, whichever comes first (as directed by the Executive Secretary) and made available to the Executive Secretary or Executive Secretary's representative upon request.

#### **Limitations**

14. Visible emissions from the following emission points shall not exceed the following values:
  - A. All crushers - 15% opacity
  - B. All screens - 10% opacity
  - C. All conveyor transfer points - 10% opacity
  - D. All bin vents - 10% opacity
  - E. All baghouses - 10% opacity
  - F. All diesel engines - 20% opacity
  - G. Conveyor drop points - 20% opacity
  - H. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

NSPS equipment shall be subject to the requirements stated in 40 CFR Subpart A sections 60.7, 60.8, and 60.11.

15. Hours of Operation

- A. The actual hours of operation of the plant shall not exceed 16 hours during a 24-hour period (from midnight to midnight). The actual time of operation shall be between 6:00 AM and 10:00 PM. The hours of operation may be altered with the approval of the Executive Secretary. Any request for a change in these hours shall be submitted to the Executive Secretary for approval.

**Page 7**

DAQE-IN0119410009-08

Page 6

shall include modeling showing that all National Ambient Air Quality Standards are met.

- B. The total hours of actual operation/production shall not exceed 2,880 hours during the entire period of relocation to any site.
- C. Records of hours of operation shall be kept for all periods when the plant is in operation. Hours of operation shall be determined by a supervisor responsible for the monitoring and maintenance of an hours-of-operation log. An example of an hours-of-operation log is shown in the following Table:

DATE	START TIME	STOP TIME	#
3-1-95	7:10 AM	11:35 AM	
3-1-95	12:30 PM	5:35 PM	
3-1-95 Total			
3-2-95	7:30 AM	5:30 PM	
More entries	in these	intervening rows	1
8-30-95	6:15 AM	4:15 PM	
Grand Total For Location			

#### 16. Haul Road Limitation

The speed of mobile equipment (trucks, front end loaders, etc.) shall not exceed 1 per hour. The haul road speed shall be posted, at a minimum, on site at the beginning of the haul road so that it is clearly visible from the haul road.

17. Open Area Limitations

- A. The area occupied by the storage piles generated by this operation shall not exceed 1.5 acres.
- B. The area disturbed by this operation, which has not been stabilized to prevent erosion, shall not exceed 5.0 acres.
- C. Control of disturbed or stripped areas shall be required at all times for the duration of the project/operation per R307-205, UAC.

18. Silos for Concrete Plants: All displaced air from the silos shall pass through a fabric filter device before being vented to the atmosphere.

Page 8

DAQE-IN0119410009-08

Page 7

- 19. Prior to granting the Temporary Relocation Approval Letter for operation at any site, DAQ will verify that the total emissions from the site (or other sites that are considered to be adjacent or contiguous to the site) for all equipment owned or operated by a company (including equipment permitted under a permanent AO) over any 12-month period shall not exceed major source thresholds, at each site, for the Operating Permit program. The thresholds are 100 tons per year of non-HAPs, 25 tons per year of any combination of HAPs and 10 tons per year of any single HAP.
- 20. The daily production limit specified in the Temporary Relocation Approval Letter for the plant shall not be exceeded without prior approval in accordance with R307-401, UAC. Records of daily production shall be kept for all periods when the plant is in operation. The daily production shall be determined by belt scale records, scale house records, vendor receipts or by any other method as acceptable to the Executive Secretary or the Executive Secretary's representative. Records of daily production shall be made available to the Executive Secretary or the Executive Secretary's representative upon request. Hours of operation shall be recorded.

shall be determined by the person monitoring and maintaining the operations log.

### **Roads and Fugitive Dust**

21. Visible fugitive dust emissions from haul-road traffic and mobile equipment in open areas shall not exceed 20% opacity. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations made at 15-second intervals over a six-minute period, however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Executive Secretary or the Executive Secretary's representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made ½ vehicle length or greater behind the vehicle and at approximately ½ the height of the vehicle or greater. The accumulated six readings shall be averaged to determine the compliance value.
22. Ames Construction, Inc. shall abide by a fugitive dust control plan acceptable to the Executive Secretary for control of all dust sources associated with the equipment listed at the end of this AO. The company shall submit a fugitive dust control plan to the Executive Secretary, attention: Compliance Section, for approval within 30 days of the date of this AO. If it has an approved fugitive dust control plan in place, it shall abide by the most current fugitive dust control plan approved by the Executive Secretary.
23. Ames Construction, Inc. shall abide by all applicable requirements of R307-205 (statewide) and R307-309 for (PM<sub>10</sub> non-attainment areas of Salt Lake, Utah Counties and Ogden City) for Fugitive Emission and Fugitive Dust sources.
24. Water sprays or chemical dust suppression sprays shall be installed at the following locations to control fugitive emissions:
  - A. All crushers
  - B. All screens
  - C. All unenclosed conveyor transfer points \*

\* Enclosed is defined as having three (3) or more sides.

### **Fuels**

25. The owner/operator shall use #2 fuel oil as a primary fuel.
26. The sulfur content of any fuel oil or diesel burned shall not exceed 0.50 percent by for fuels used in on-site equipment. The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of fuels shall be either by company's own testing or test reports from the fuel marketer.

### **Federal Limitations and Requirements**

27. In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, Subpart A (General Provisions), 40 CFR 60.1 to 60.18, and Subpart OOO, 40 CFR to 60.676 (Standards of Performance for Nonmetallic Mineral Processing Plants) at this installation.

### **Records & Miscellaneous**

28. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO including associated **air** pollution control equipment in a manner consistent with good **air** pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded.
29. The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
30. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting DAQ. The UAC R307 rules used by DAQ, the NOI guide, and other **air quality** documents and forms also be obtained on the Internet at the following web site:

[http://www.deq.state.ut.us/eqair/aq\\_home.htm](http://www.deq.state.ut.us/eqair/aq_home.htm)

**Page 10**

DAQE-IN0119410009-08

Page 9

The DAQ is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of the AO. An invoice will follow upon issuance of the final AO.

Sincerely,

John T. Blanchard, Manager  
Minor New Source Review Section

Page 11

DAQE-IN0119410009-08

Page 10

STATE OF UTAH  
DIVISION OF AIR QUALITY

A.O.#

DATE:

SIGNED:

## Equipment NOT Subject to New Source Performance Standards (NSPS)

40 CFR Part 60, Subpart OOO - Plants constructed, reconstructed or modified on or before

Equipment Description	Capacity/Production Rate	Manufacture Date	AO Number
Generators			
Generator	1250 kW	1984	DAQE- AN1941002-04
Generator	825 kW	2001	DAQE-810-01
Generator	545 kW	1991	DAQE-810-01
Generator	545 kW	1999	DAQE-

				AN1941002-04
Generator	500 kW	1992		DAQE-810-01
Generator	350 kW	1995		DAQE-810-01
Generator	250 kW	1992		DAQE-810-01
Generator	225 kW	1992		DAQE-810-01
Generator	225 kW	1992		DAQE-810-01

**Concrete Batch  
Plants**

Batch Plant	300 cubic yard/hr	1997		DAQE-810-01
Batch Plant	200 cubic yard/hr	2000		DAQE-810-01

---

**Page 12**

DAQE-IN0119410009-08

Page 11

Portable Silo	300 bbls	1991		DAQE-810-01
Pugmill w/silo	450 tph	1995		DAQE-810-01
Boiler	4 mmbtu/hr			DAQE-810-01

**Misc.  
Equipment**

Conveyors

Stackers

Front-end

Loaders

Track

Excavators

Non - NSPS Equipment Listing for General Approval Order



Page 13

DAQE-IN0119410009-08  
Page 12

STATE OF UTAH  
DIVISION OF AIR QUALITY

A.O.#

DATE:

SIGNED:

### Equipment Subject to New Source Performance Standards (NSPS)

40 CFR Part 60, Subpart OOO - Plants constructed, reconstructed or modified after Aug

<b>Equipment Description</b>	<b>Capacity/Production Rate</b>	<b>Manufacture Date</b>	<b>AO Number</b>
<b>Crushers</b>			
Jaw Crusher	720 tph	1995	DAQE- AN1941002-04
Jaw Crusher	600 tph	1992	DAQE- AN1941002-04
Jaw Crusher	600 tph	2001	DAQE-810-01

Jaw Crusher	600 tph	2001	DAQE-810-01
Jaw Crusher	520 tph	1992	DAQE-810-01
Jaw Crusher	450 tph	1990	DAQE-810-01
Cone Crusher	645 tph	1999	DAQE-810-01
Cone Crusher	600 tph	2002	DAQE-810-01
Cone Crusher	475 tph	1994	DAQE-810-01
Cone	380 tph	1990	DAQE-810-01
Crusher/Screen (3-Deck)			
VSI Crusher	400 tph	1998	DAQE-810-01
Mobile Crusher	450 tph	2002	DAQE- AN1941002-04
Mobile Crusher	450 tph	2003	DAQE- AN1941002-04
Jaw Crusher	600 tph	2005	New
Mobile Crusher	600 tph	2006	New

**Page 14**

DAQE-IN0119410009-08

**Page 13****Screens**

Screen	6' x 20'	2000	DAQE-810-01
Screen	4' x 8'	1989	DAQE-810-01
Screen (3-Deck)	6' x 20'	1998	DAQE-810-01
Screen (3-Deck)	6' x 20'	1992	DAQE-810-01
Screen (3-Deck)	7' x 20'	2002	DAQE- AN1941002-04
Screen (3-Deck)	7' x 20'	2002	DAQE- AN1941002-04
Trommel Screen	7' x 22'	2006	
Screen		1999	DAQE-810-01
Screen	5' x 16'	2001	DAQE-810-01
Twin Screen	6' x 20'	1995	DAQE-810-01

**Feeders**

Tunnel Feeder	1500 tph	2001	DAQE-810-01
Tunnel Feeder	2000 tph	2001	DAQE-810-01
Texas Feeder		1989	DAQE-810-01
Belt Feeder	600 tph	2000	DAQE-810-01
Grizzley Feeder		1982	DAQE-810-01

**Misc.****Equipment**

Dozer Trap		1997	DAQE-810-01
Dozer	4' x 6'	1978	DAQE-810-01
Trap/Screen			
Washplant	500 tph	1996	DAQE-810-01
(Twin Screen)			
Washplant			
(Screen & Sand			
Screws)	500 tph	1994	DAQE-810-01

NSPS Equipment Listing for General Approval Order